KINTRONIC LABS

an ISO 9001 registered company

KTL-RMC-1L/R
AM/ FM/TV MAIN/STANDBY
TRANSMITTER CONTROLLER





STANDARD FEATURES

- Utilizes Programmable Logic Controller (PLC) With Relay Logic Emulation
- Versatile Electrical Interface To Accommodate Direct AC Drive or Low Voltage DC Drive of Any Type of Open Frame or Coaxial Switch
- Front Panel Illuminated Pushbutton Selection
- Remote Control Interface
- Key Operated XMTR Interlock Bypass For Operation Into Dummy Load
- Failsafe Logic Utilizing Transmitter RF Mute To Prevent Switch Movement with RF Applied
- Adjustable Duration Switching Window for Solenoid Protection and To Permit Operation of Any Type of RF Switch
- Electrical Interface Provisions on Rear:
  - (1) 14-Pin Quick Disconnect For RF Contactor;
  - (2) 7-Pin Quick Disconnect For Remote control;
  - (3) 12-Pin Barrier Strip For XMTR RF Mute, Antenna Safely Interlock & Dummy Load Air Interlock
- Dimension: 19” (483mm) W x 13.75” (349mm) D x 5.25” (133mm) H

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KINTRONIC RMC-1LR Controller

GENERAL DESCRIPTION

The controller provides the command, status and interlock functions required by the RF contactor for switching either of the transmitters to the antenna or dummy load.
The features of Kintronic Lab's RMC-1LR Programmable Logic Controller (PLC)-based controller are described in the Operations Manual.
Documentation of the logic and interconnection wiring for the controller is supplied with the unit and should be referenced for the specific details and features.

TECHNICAL SPECIFICATIONS

AC Power Required: 80VAC to 240VAC
Size: 19"W x 18"D (Including Connectors) x 5-1/4"H (3 Rack Units)
Paint Scheme: Kintronic Labs Black
Weight: Approximately ___16__ lbs.

GENERAL OPERATION

1. Mode Selection

The on-air transmitter is selected locally by the depression of a front panel illuminated pushbutton switch or remotely by the application of a momentary dry closure or a ground to the appropriate pins on connector TB1. e.g. Transmitter #1 is Pins “A” and “B”. The controller responds with a status dry closure (TB1) to verify the selected transmitter. The dry closures indicate the completion of the interlock circuit for the selected mode. Following the selection of the transmitter, the LED in the corresponding pushbutton switch will illuminate if the interlocks are complete. If a RF contactor does not switch to the required position, the interlock will be broken and the corresponding pushbutton and status lights will not be illuminated.

2. Failsafe Switching

- The control system is designed to temporarily mute the transmitters and permit RF contactor switching only when the transmitter RF is turned off to prevent damage to the RF switch contacts.
- This system can use slave relays (Slave Panel Operation) or directly apply AC voltage to the contactor (Direct Drive Operation).

3. Status and Interlock

- The status of the RF contactor is determined by feedback from the contactor microswitches.
- The microswitch for each contactor position controls an input on the PLC.

4. Timer Adjustment

The Operator Display on top of the PLC unit is used to adjust the timers. A typical setting for timer %TM1 to prevent solenoid burnout is 150 (1.5 seconds).

5. Additional Features

- A two-position, key-operated, interlock-bypass switch is supplied to permit the off-air transmitters to be operated into the dummy load.
- There are 4 front panel LEDs (2 green and 2 red) which show which transmitter is connected to the antenna and to the dummy load. A white LED shows if the dummy load is ready of operation (air flow interlock enabled). A jumper should be placed in terminal block if no air or water interlock is available.

http://www.kintronic.com/shop/amfmtv-mainstandby-transmitter-controller/

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